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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/158,982	09/23/1998	BRIAN R. BULLARD	029623/0129	4595
23370 7	11/19/2003		EXAM	INER
JOHN S. PRA	ATT, ESQ		MARSCHEL	, ARDIN H
KILPATRICK	STOCKTON, LLP			
1100 PEACHTREE STREET		ART UNIT	PAPER NUMBER	
SUITE 2800			1631	
ATLANTA, C	GA 30309			

DATE MAILED: 11/19/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		09/158,982	BULLARD ET AL.
		Examiner	Art Unit
		Ardin Marschel	. 1631
Period f	The MAILING DATE of this commu or Reply	nication appears on the cover sheet wit	th the correspondence address
THE - Extraording - If th - If Ni - Fail - Any	MAILING DATE OF THIS COMMUN ensions of time may be available under the provision or SIX (6) MONTHS from the mailing date of this com e period for reply specified above is less than thirty (o period for reply is specified above, the maximum so ure to reply within the set or extended period for repl	is of 37 CFR 1.136(a). In no event, however, may a re	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
1)⊠	Responsive to communication(s) fil-	ed on 10 July 2003 and 22 August 20	<u>03</u> .
2a)⊠	This action is FINAL .	2b)☐ This action is non-final.	
3)		n for allowance except for formal matte tice under <i>Ex parte Quayle</i> , 1935 C.D.	
Disposit	tion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 3,6-20 and 23 is/are pendidal of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) 3,6-20, and 23 is/are rejected to. Claim(s) is/are objected to. Claim(s) are subject to restrict	are withdrawn from consideration.	
	ion Papers		
9)	The specification is objected to by the	ne Examiner.	
10)[The drawing(s) filed on is/are	: a) ☐ accepted or b) ☐ objected to b	y the Examiner.
		ection to the drawing(s) be held in abeyand	
4.4.\		g the correction is required if the drawing(s	
-	·	o by the Examiner. Note the attached	Office Action or form PTO-152.
_	under 35 U.S.C. §§ 119 and 120		440() () ()
* (13)	□ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority 2.□ Certified copies of the priority 3.□ Copies of the certified copies application from the Internation See the attached detailed Office action Acknowledgment is made of a claim from the ince a specific reference was included at CFR 1.78. a)□ The translation of the foreign land.	n for foreign priority under 35 U.S.C. § r documents have been received. r documents have been received in Ap of the priority documents have been re conal Bureau (PCT Rule 17.2(a)). on for a list of the certified copies not re for domestic priority under 35 U.S.C. § ed in the first sentence of the specifical inguage provisional application has been for domestic priority under 35 U.S.C. §	eceived. S 119(e) (to a provisional application) tion or in an Application Data Sheet. en received.
		itence of the specification or in an App	
Attachmen	, ,	. □	(DTO 440) 0No/-)
2) 🔲 Notic	ce of References Cited (PTO-892) be of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449) P	PTO-948) 5) Notice of Info	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)

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DETAILED ACTION

Applicants' arguments, filed 7/10/03 and 8/22/03, have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

LACK OF ENABLEMENT

Claims 3, 6-20, and 23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Factors to be considered in determining whether a disclosure would require undue experimentation have been summarized in Exparte Forman, 230 USPQ 546 (BPAI 1986) and reiterated by the Court of Appeals in In re Wands, 8 USPQ2d 1400 at 1404 (CAFC 1988). The factors to be considered in determining whether undue experimentation is required include: (1) the quantity of experimentation necessary, (2) the amount or direction presented, (3) the presence or absence of working examples, (4) the nature of the invention, (5) the state of the prior art, (6) the relative skill of those in the art, (7) the predictability or unpredictability of the art, and (8) the breadth of the claims.

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The Board also stated that although the level of skill in molecular biology is high, the results of experiments in genetic engineering are unpredictable. While all of these factors are considered, a sufficient amount for a prima facie case are discussed below.

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This rejection is reiterated and maintained from the previous office action, mailed 2/5/03. Applicants argue that technique for the monitoring of gene expression of great accuracy and predictability is incorporated in this application. In response, this argument is not directed to the basis for the rejection and therefore non-persuasive. Applicants are reminded that the issue is not whether the data is accurate or not, but is directed to the unpredictability as to what use that such displayed data is applied to. The Stoeckert, Jr., et al. reference is not directed to data accuracy but rather the unpredictability of use thereof, no matter what the accuracy is. Also, applicants have not set forth what predictable usage may support the instant invention, but only alleged such usage. Allegations without factual support are not persuasive, especially considering the factual support set forth in this rejection previously based on Stoeckert et al.

PRIOR ART

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein

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were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 6 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Farr et al. (P/N 5,811,231); taken in view of In re Venner [120 USPQ 192 et seq.].

This rejection is maintained and reiterated from the previous office action, mailed 2/5/03. Applicants argue based on the amending claims 6 and 23 to specify first and second values of polynucleotides. In response the Farr et al. 3-D displays are deemed to reasonably include such values. The size measurement is reasonably characterized via the value which identifies which polynucleotide is being expressed and measured for said expression. The sequence identifier is the identifier of what compound is being utilized with each particular sequence. Thus, these two values are reasonably comprehended in the Farr et al. disclosure. It is noted that the instant claims do not define or particularly limit what specifically identifies the sequence in the claims for the first value, nor do the claims define or particularly limit what size measurement characteristic is meant for the second value in the above rejected claims. The above explanation is deemed a new ground of rejection based on Farr et al. descriptions and is necessitated by amendment.

No claim is allowed.

Applicants' amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicants are reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993)(See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (703) 872-9306.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ardin Marschel, Ph.D., whose telephone number is (703)308-3894. The examiner can normally be reached on Monday-Friday from 8 A.M. to 4 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Woodward, Ph.D., can be reached on (703)308-4028.

Any inquiry of a general nature or relating to the status of this application should be directed to Legal Instrument Examiner, Tina Plunkett, whose telephone number is (703)305-3524 or to the Technical Center receptionist whose telephone number is (703) 308-0196.

Shan I Marsh

November 14, 2003